

ATTORNEY'S DOCKET NO.:

074036.0125

PATENT APPLICATION

10/723,107



09/03/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Mohammed N. Islam
Appln. Serial No.: 10/723,107
Date Filed: November 25, 2003
Title: Optical Logic Gate Based Optical Router

Mail Stop Amendment
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

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Willie Jiles

Willie Jiles

INFORMATION DISCLOSURE STATEMENT

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. No representation is made that a search has been made, that these references are material to the patentability of the present application, or that these references qualify as prior art.

Since the Application was filed after June 30, 2003, under the July 11, 2003 waiver of 37 C.F.R. § 1.98(a)(2)(i) by the U.S. Patent and Trademark Office, no copy of any U.S. Patent or U.S. Patent Application Publication listed on the attached PTO-1449 form is enclosed.

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. § 1.97(b), and therefore Applicant believes no fees are due. However, the Commissioner is

hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,
BAKER-BOTTS L.L.P.



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05073

Date: Sept. 1, 2004

PTO-1449 Information Disclosure Citation in an Application	Application No.	Applicant(s)	
	10/723,107	Mohammed N. Islam et al.	
	Docket Number	Group Art Unit	Filing Date
	074036.0125		November 25, 2003

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,751,469	05/12/98	Arney, et al.	359	291	02/01/96
	B	5,774,252	06/30/1998	Lin et al.	359	224	04/19/1996
	C	5,825,528	10/20/98	Goossen	359	291	12/26/95
	D	5,835,255	11/10/98	Miles	359	291	05/05/94
	E	5,841,579	11/24/98	Bloom, et al.	359	572	06/07/95
	F	5,850,492	12/15/98	Morasca, et al.	385	11	11/06/96
	G	5,870,221	02/09/99	Goossen	359	290	07/25/97
	H	5,909,303	06/01/1999	Trezza et al.	359	248	01/03/1997
	I	5,914,804	06/22/99	Goossen	359	291	01/28/98
	J	5,920,391	07/06/1999	Grasdepot et al.	356	352	04/22/1998
	K	5,943,155	08/24/99	Goossen	359	247	08/12/98
	L	5,943,158	08/24/99	Ford, et al.	359	295	05/05/98
	M	5,943,454	08/24/99	Aksyuk, et al.	385	22	08/15/97
	N	5,949,571	09/07/99	Goossen, et al.	359	291	07/30/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	O	0 788 005 A2	06.08.1997	EP	G02B	26/02	X	
	P	99/34484	08.07.1999	WO	H01S		X	
	Q	01/09995 A1	08.02.2001	WO	H01S	5/00	X	

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	R	O. Solgaard, et al., "Deformable Grating Optical Modulator," Optics Letters, Vol. 17, No. 9, pp. 688-690	05/01/92
	S	W.R. Wiszniewski, et al., "Mechanical Light Modulator Fabricated On A Silicon Chip Using Simox Technology, pp. 1027-1030	Undated
	T	M.W. Chbat, "High-spectral-efficiency transmission systems," OFC 2000, Baltimore, MD, pp TuJ1-1, 134-136	
	U	J.W. Bayless, et al., "The Specification and Design of Bandlimited Digital Radio Systems," IEEE Transactions on Communications, Vol. COM-27 (12): pp. 1763-1770	
	V	D.E. Sene, et al., "Polysilicon Micromechanical Gratings for Optical Modulation," Elsevier Vol. Sensors and Activators (A 57), pp. 145-151	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	4,011,009	03/08/77	Lama, et al.	350	162 R	05/27/75
	B	4,900,119	02/13/90	Hill, et al.	350	96.15	04/01/88
	C	5,103,340	04/07/1992	Dono et al.	385	46	08/07/1991
	D	5,212,743	05/18/93	Heismann	385	11	02/12/92
	E	5,291,502	03/01/1994	Pezeshki et al.	372	20	09/04/1992
	F	5,311,360	05/10/94	Bloom, et al.	359	572	04/28/92
	G	5,343,542	08/30/1994	Kash et al.	385	31	04/22/1993
	H	5,459,610	10/17/95	Bloom, et al.	359	572	05/20/93
	I	5,500,761	03/19/96	Goossen, et al.	359	290	01/27/94
	J	5,654,819	08/05/97	Goossen, et al.	359	291	01/07/95
	K	5,659,418	08/19/97	Yurke	359	290	02/05/96
	L	5,661,592	08/26/97	Bornstein, et al.	359	291	01/07/95
	M	5,701,193	12/23/97	Vogel, et al.	359	290	02/21/96
	N	5,745,271	04/28/98	Ford, et al.	359	130	07/31/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	O	0 667 548 A1	16.08.1995	EP	G02B	26/02	X	
	P	0 689 078 A1	27.12.1995	EP	G02B	26/08	X	

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	Q	K. E. Petersen, "Micromechanical Light Modulator Array Fabricated On Silicon," Applied Physics Letters, Vol. 31, No. 8, pp. 521-523	10/15/77
	R	C. Marxer, et al., "Megahertz Opto-Mechanical Modulator," Elsevier Science S.A., pp. 46-50	1996
	S	C. M. Ragdale, et al., "Integrated Three Channel Laser and Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronics Letters, Vol. 30, No. 11, pp. 897-898	05/26/94
	T	K. O. Hill, et al., "Narrow-Bandwidth Optical Waveguide Transmission Filters," Electronic Letters, Vol. 23, No. 9, pp. 465-466	04/23/87
	U	C. M. Ragdale, et al., "Integrated Laser and Add-Drop Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronic Letters, Vol. 28, No. 8, pp. 712-714	04/09/92
	V	K. Aratani, et al., "Process and Design Considerations for Surface Micromachined Beams for A Tuneable Interferometer Array in Silicon," Handbook of Physics, pp. 230-235	1993

EXAMINER**DATE CONSIDERED**

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U.S. Patent and Trademark Office

PTO-1449 Information Disclosure Citation in an Application			Application No. 10/723,107 Docket Number 074036.0125		Applicant(s) Mohammed N. Islam et al. Group Art Unit Filing Date November 25, 2003		
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,949,801	09/07/1999	Tayebati	372	20	07/22/1998
	B	5,960,133	09/28/99	Tomlinson	385	18	01/27/98
	C	5,974,207	10/26/99	Aksyuk, et al.	385	24	12/23/97
	D	5,986,796	11/16/99	Miles	359	260	11/05/96
	E	5,999,319	12/07/1999	Castracane	359	573	04/29/1998
	F	6,002,513	12/14/99	Goossen, et al.	359	291	06/22/98
	G	6,025,950	02/15/2000	Tayebati et al.	359	244	07/27/1998
	H	6,041,071	03/21/2000	Tayebati	372	64	09/27/1996
	I	6,123,985	09/26/2000	Robinson et al.	427	162	10/28/1998
	J	6,204,946 B1	03/20/2001	Aksyuk et al.	359	131	11/12/97
	K	0055147 A1	12/27/2001	Little et al.	359	293	03/20/2001
	L	6,271,052 B1	08/07/2001	Miller et al.	438	50	10/19/2000
	M	6,301,274 B1	10/09/2001	Tayebati et al.	372	20	03/30/1999
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	N	01/67156 A3	13.09.2001	WO	G02B	26/00	X
	O	01/67157 A2	13.09.2001	WO	G02B	26/00	X
	P	01/67158 A2	13.09.2001	WO	G02B	26/00	X
	Q	01/67171 A2	13.09.2001	WO	G02F	1/21	X
	R	01/75497 A1	11.10.2001	WO	G02B	6/35	X
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	S	D.M. Burns, et al., "Micro-Electro-Mechanical Variable Blaze Gratings," IEEE 10th Annual International Workshop on Micro Mechanical Systems, pp. 385-391					1997
	T	L.Y. Lin, et al., "Micromachined polarization-state-controller and its application to polarization-mode dispersion compensation," OFC 2000, Baltimore, MD, pp. ThQ3-1, 244-246					2000
	U	J.W. Bayless, et al., "High Density Digital Data Transmission," National Telecommunications Conference, Dallas, TX, pp. 1-6					1976
	V	R.W. Corrigan, et al., "17.3: Calibration of a Scanned Linear Grating Light Value Projection System," www.siliconlight.com					1999
EXAMINER					DATE CONSIDERED		
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	6,341,039 B1	01/22/2002	Flanders et al.	359	578	08/25/2000
	B	6,373,632 B1	04/16/2002	Flanders	359	578	08/25/2000
	C	6,381,387 B1	04/30/2002	Wendland, Jr.	385	37	08/02/2000
	D	2002/0105697 A1	08/08/2002	Fabiny	359	128	02/12/2002
	E	6,439,728 B1	08/27/2002	Copeland	359	515	08/28/2001
	F	6,407,851 B1	06/18/2002	Islam et al.	359	291	08/01/2000
	G	2002/0035193 A1	02/20/2003	Islam et al.	359	290	08/22/2002
	H	2003/0081878 A1	05/01/2003	Joyner et al.	385	14	10/08/2002
	I	2003/0086465 A1	05/08/2003	Peters et al.	372	50	10/30/2002
	J	2003/0095736 A1	05/22/2003	Kish, JR. et al.	385	14	10/08/2002

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	K	WO 01/37021 A1	14.11.2000	PCT	G02B	6/42	X	
	L	WO 01/79795 A1	22.03.2001	PCT	G01J	3/28	X	
	M	WO 02/056521 A1	02.11.2001	PCT	H04J	14/00	X	
	N	WO 02/059655 A2	20.12.2001	PCT	G02B		X	

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	O	SLM "Grating Light Valve Technology," www.siliconlight.com , 2 pages, "Calibration of a Scanned Linear Grating Light Valve Projection System" SID Symposium, San Jose CA	May 1999
	P	R.W. Corrigan, et al., "Grating Light Valve Technology for Projection Displays," Presented at the International Display Workshop, Kobe, Japan, Paper Number LAD5-1, 4 pages Proceedings of the Society for Information Display Symposium Digest, vol.29, p. 29	12/09/1998
	Q	M. Ming, et al., "Principles and Applications of Optical Communications," Irwin, pp. 468 & 470	1996
	R	SLM "Silicon Light Machines™ – Grating Light Valve™ Technology Brief," www.siliconlight.com ver. C, 8 pages	06/2001
	S	R.W. Corrigan, et al., "An Alternative Architecture for High Performance Display," www.siliconlight.com , SLM, Presented at the 141 st SMPTE Technical Conference and Exhibition, New, York, NY, 5 pages	11/20/1999
	T	A. Willner, "WDM Systems 1," OFC '97, Dallas, TX, pp. TuJ, 43-45	1997
	U	C. Pu, et al., "Micromachined Integrated Optical Polarization-State Rotator," IEEE Photonics Technology Letters, Vol. 12 (10), pp. 1358-1360	10/2000

EXAMINER

DATE CONSIDERED

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	A						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	B	WO 02/06860 A1	11.07.2001	PCT	G02B	5/18	X
	C	WO 02/10822 A1	31.07.2001	PCT	G02B	6/34	X
	D	WO 02/21191 A1	07.09.2001	PCT	G02B	27/10	X
	E	WO 02/50588 A1	20.12.2001	PCT	G02B	6/26	X
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	F	D.T. Amm, et al., "5.2: Grating Light Valve Technology: Update and Novel Applications," Presented at Society for Information Display Symposium, Anaheim, CA, pp. 1-4					1999
	G	D.M. Burns, et al., "Development of Micromechanical Variable Blaze Gratings," Elsevier Science S.A., vol. Sensors and Actuators, pp. 7-15					1998
	H	C.K. Madsen, et al., "A Tunable Dispersion Compensating MEMS All-Pass Filter," IEEE Photonics Technology Letters, Vol. 12 (6), pp. 651-653					2000
	I	J.E. Ford, et al., "Passband-Free Dynamic WDM Equalization," ECOC '98, Madrid, Spain, pp. 317-318					1998
	J	K.W. Goossen, et al., "Silicon Modulator Based on Mechanically-Active Anti-Reflection Layer with 1 Mbit/sec Capability for Fiber-in-the-Loop Applications," IEEE Photonics Technology Letters, Vol. 6 (9), pp. 1119-1121					1994
	K	L.Y. Lin, et al., "Angular-Precision Enhancement in Free-Space Micromachined Optical Switches," IEEE Photonics Technology Letters, Vol. 11 (10), pp. 1253-1255					1999
	L	L.Y. Lin, et al., "Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects," IEEE Photonics Technology Letters, Vol. 10 (4), pp. 525-527					1998
	M	L.Y. Lin, et al., "Optical Crossconnects for High-capacity Lightwave Networks," Journal of High Speed Networks, pp. 17-34					1999
	N	E.P. Furlani, et al., "Analysis of grating light valves with partial surface electrodes," American Institute of Physics, Vol. 83 (2), pp. 629-634					1998
	O	E.P. Furlani, et al., "Theory and simulation of viscous damped reflection phase gratings," J. Phys. D: Appl. Phys., Vol. 32, pp. 412-416					1999
	P	K. Aratani, et al., "Surface micromachined tuneable interferometer array," Sensors and Actuators, Vol. 43, pp. 17-23					1994
	Q	R.T. Howe, et al., "Polycrystalline Silicon Micromechanical Beams," Journal Electrochemical Society, Vol. 130 (6), pp. 1420-1423					1983
	R	S.R. Mallinson, "Wavelength-selective filters for single-mode fiber WDM systems using Fabry-Perot interferometers," Applied Optics, Vol. 26 (3), pp. 430-436					1987
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	B						YES NO
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	L.Y. Lin, et al., "Optical-layer Networking: Opportunities for and Progress in Lightwave Micromachines," OFC 2000, Baltimore, MD, pp. 1-88					2000
	D	Burnett et al., "Diffraction and Interference," in E. U. Condon and H. Odishaw, eds., <u>Handbook of Physics</u> (McGraw-Hill, New York, Toronto, and London), pp. 6-102 and 6-103					1958
	E	"Polarization Mode Dispersion (PMD)," Cables & Components Technical Papers, http://www.usa.alcatel.com/cc/techprs/fnlpmd2.htm					2000
	F	Curtis Menyuk, University of Maryland, Baltimore County "PMD in Optical Transmission System," Menyuk tutorial, OFC 2000, pp. 78-97 specifically pp. 92-94					03/2000
	G	Agrawal, "Fiber-Optic Communication Systems," A Wiley-Interscience Publication, The Institute of Optics University of Rochester NY, pp. 284-360					1997
	H	Ford et al., "Fiber-Coupled Variable Attenuator Using a MARS Modulator," Invited Paper, SPIE, Vol. 3226, pp. 86-93					1997
	I	Sadot et al., "Tunable Optical Filters for Dense WDM Networks," IEEE Communications Magazine, pp. 50-55					12/1998
	J	Goossen, "MEMS-Based Variable Optical Interference Device," IEEE, Invited MB1, pp. 17-18					08/2000
	K	Walker et al., "Mechanical Anti-Reflection Switch (MARS) Device for Fiber-In-the-Loop Applications," Invited FA1, pp. 59-60					Undated
	L	Jerman, "Miniature Fabry-Perot Interferometer Micromachined in Silicon for use in Optical Fiber WDM Systems," Transducers '91, International Solid-State Conference on Sensors and Actuators, pp. 372-375					1991
	M	Wu et al., "Widely and Continuously Tunable Micromachined Resonant Cavity Detector with Wavelength Tracking," IEEE Photonics Technology Letters, Vol. 8, No. 1, pp. 98-99					1991
	N	Vail et al., "GaAs micromachined widely tunable Fabry-Perot Filters," Electronics Letters, Vol. 31, No. 3, pp. 228-229					01/1996
	O	Vail et al., "High performance micromechanical tunable vertical cavity surface emitting lasers," Electronics Letters, Vol. 32, No. 20, 2 pages					09/26/1996
	P	Tayebati et al., "Microelectromechanical tunable filter with stable half symmetric cavity," Electronics Letters, Vol. 34, No. 20, pp. 1967-1968					10/01/1998
	Q	Tayebati et al., "Microelectromechanical tuneable filters with 0.47 nm linewidth and 70 nm tuning range," Electronics Letters, Vol. 34, No. 1, 2 pages					01/08/1998
	R	Tayebati et al., "Widely Tunable Fabry-Perot Filter Using Ga(A1)As-A1Ox Deformable Mirrors," IEEE Photonics Technology Letters, Vol. 10, No. 3, pp. 394-396					03/1998
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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	P. Ohlen, et al., "All-optical header erasure and penalty-free rewriting in a fiber-based high-speed wavelength converter," IEEE Photonics Technology Letters, vol. 12, pp. 663-665					June 2000
	D	B.S. Robinson, et al., "Demultiplexing of 80-Gb/s Pulse-Position Modulated Data With an Ultrafast Nonlinear Interferometer," IEEE Photonics Technology Letters, vol. 14, pp. 206-208					Feb 2002
	E	C. Schubert, et al., "160-gb/s all-optical demultiplexing using a gain-transparent ultrafast-nonlinear interferometer (GT-UNI)," IEEE Photonics Technology Letters, vol. 13, pp. 475-477					May 2001
	F	C. Schubert, et al., "Error-free all-optical add-drop multiplexing at 160 Gbit/s," Optical Fiber Communication Conference, PD-17, Atlanta, GA, USA					Mar. 2003
	G	A.S. Siddiqui, et al., "Dispersion-tolerant transmission using a duobinary polarization-shift keying transmission scheme," IEEE Photonics Technology Letters, vol. 14, pp. 158-160					Feb. 2002
	H	K.E. Stubkjaer, "Semiconductor Optical Amplifier-Based All-Optical Gates for High-Speed Optical Processing," IEEE Journal Selected Topics of Quantum Electronics, vol. 6, pp. 1428-1435					Nov/Dec. 2000
	I	T.J. Xia, et al., "Novel Self-Synchronization Scheme for High-Speed Packet TDM Networks," IEEE Photonics Technology Letters, vol. 11, pp. 269-271					Feb. 1998
	J						
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	M						
	N						
	O						
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NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	S.A. Hamilton, et al., "40-Gb/s all-optical packet synchronization and address comparison for OTDM networks," IEEE Photonics Technology Letters, vol. 14, pp. 209-211					Feb. 2002
	D	H.C. Ji, et al., "Effect of Polarization Dependent Loss on Polarization-Shift-Keying Transmission Systems," Optical Components and Transmission Systems, SPIE Vol. 4906, pp 313-318					2002
	E	S.J.B. Yoo, et al., "Rapidly switching all-optical packet routing system with optical-label swapping incorporating tunable wavelength conversion and a uniform-loss cyclic frequency AWGR," IEEE Photonics Technology Letters, vol. 14, pp. 1211-1213					Aug. 2002
	F	Y.H. Kao, "Ultrafast Optical Switching Using Semiconductors for High-Speed Communication Systems," PhD Physics Thesis, University of Michigan					1998
	G	Y.H. Kao, et al., "Limitations on ultrafast optical switching in a semiconductor laser amplifier operating at transparency current," Journal of Applied Physics, vol. 86, pp. 4740-4747					Nov. 1999
	H	J.H. Kim, et al., "All-Optical XOR Gate Using Semiconductor Optical Amplifiers Without Additional Input Beam," IEEE Photonics Technology Letters, vol. 14, pp. 1436-1438					Oct. 2002
	I	A. Lattes, et al., "An Ultrafast All-Optical Gate", IEEE Journal of Quantum Electronics, Vol. 19, pp. 1718-1723					Nov. 1983
	J	J.J. Lepley, et al., "Excess penalty impairments of polarization shift keying transmission format in presence of polarization mode dispersion," Electronics Letters, vol. 36 pp. 736-737					April 2000
	K	Y.M. Lin, et al., "A novel optical label swapping technique using erasable optical single-sideband subcarrier label," IEEE Photonics Technology Letters, vol. 12, pp. 1088-1090					Aug. 2000
	L	B. Meagher, et al., "Design and implementation of ultra-low latency optical label switching for packet-switched WDM networks," Journal Of Lightwave Technology, vol. 18, no. 12, pp. 1978-1987					Dec. 2000
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

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PTO-1449		Application No. 10/723,107		Applicant(s) Mohammed N. Islam et al.			
Information Disclosure Citation in an Application		Docket Number 074036.0125		Group Art Unit	Filing Date November 25, 2003		
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	B						YES NO
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	C. Bintjas, et al., "20 Gb/s All-Optical XOR with UNI Gate," IEEE Photonics Technology Letters, Vol. 12, No. 7, 3 pages					July 2000
	D	T. Houbavlis, et al., "10Gbit/s all-optical Boolean XOR with SOA fibre Sagnac gate," Electronics Letters, Vol. 35, No. 19, 2 pages					September 16, 1999
	E	Y-H. Kao, et al., "100 Gb/s optical switching using a symmetric semiconductor switch," Department of Electrical Engineering and Computer Science, University of Michigan, Photonics Technology Letters, Manuscript No. 6624, 12 pages					November 16, 1998
	F	R.A. Barry, et al., "All-Optical Network Consortium-ultrafast TDM networks," IEEE Journal on Selected Areas in Communications, vol. 14, no. 5, pp. 999-1013					1996
	G	S. Benedetto, et al., "Multilevel polarization modulation using a specifically designed LiNbO ₃ device," IEEE Photonics Technology Letters, vol. 6 pp. 949-951					Aug. 1994
	H	S. Benedetto, et al., "Direct-detection of optical digital transmission based on polarization shift keying modulation," IEEE Journal Selected Areas Communications, vol. 13, pp. 531-542					April; 1995
	I	S. Benedetto, et al., "Polarization recovery in optical polarization shift-keying systems," IEEE Trans. Communications, vol. 45, pp. 1269-1279					Oct. 1997
	J	S. Betti, et al., "Multilevel coherent optical-system based on stokes parameters modulation," Journal of Lightwave Technology, vol. 8, pp. 1127-1136					July 1990
	K	D.J. Blumenthal, et al., "All-optical label swapping networks and technologies," Journal of Lightwave Technology, vol. 18, pp. 2058-2075					Dec. 2000
	L	O. Boyraz, et al., "Demonstration and performance analysis for the off-ramp portion of an all-optical access node," Journal of Lightwave Technology, vol. 17, pp. 998-1010					June 1999
	M	A. Carena, et al., "OPERA: An Optical Packet Experiment Routing Architecture with Label Swapping Capability," Journal of Lightwave Technology, vol. 16, no. 12, pp. 2135-2145					Dec. 1998
	N	S. Chaudhuri, et al., "On the Value of Optical-layer Reconfigurability in IP-Over-WDM Lightwave Networks," IEEE Photonics Technology Letters, vol. 12, pp. 1097-1099					Aug. 2000
	O	S. Fischer, et al., "Optical 3R regenerator for 40 Gbit/s network," Electronics Letters, vol. 35, pp. 2047-2049					Nov. 2000
	P	T. Fjelde, et al., "Novel scheme for efficient label-swapping using simple XOR gate," European Conference on Optical Communication (ECOC), Paper no. 10.4.2, pp. 63-64, Munich, Germany					Sept. 2000
	Q	T. Fjelde, et al., "Demonstration of 20 Gbit/s all-optical logic XOR in integrated SOA-based interferometric wavelength converter", Electronics Letters, vol. 36, pp. 1863-1864					Oct. 2000
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

U.S. Patent and Trademark Office

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U.S. PATENT DOCUMENTS							
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	A						
FOREIGN PATENT DOCUMENTS							
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	B						YES NO
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	Noé et al., "Endless Polarization Control Systems for Coherent Optics," 0733-8724/88/0700-1999, IEEE, Journal of Light Technology, Vol. 6, No. 7, 9 pages					07/1988
	D	Heismann, "Analysis of a Reset-Free Polarization Controller for Fast Automatic Polarization Stabilization in Fiber-optic Transmission Systems," IEEE, Journal of Lightwave Technology, Vol. 12, No. 4, 10 pages					04/1994
	E	Sandel et al., "Automatic polarisation mode dispersion compensation in 40 Gbit/s optical transmission system," Electronics Letters, Vol. 34, No. 23, 2 pages					11/12/1998
	F	Pua, et al., "An Adaptive First-Order Polarization-Mode Dispersion Compensation System Aided by Polarization Scrambling: Theory and Demonstration," 0733-8724/00, IEEE, Journal of Lightwave Technology, Vol. 18, No. 6,					06/2000
	G	Kudou, et al., "Theoretical Basis of Polarization Mode Dispersion Equalization up to the Second Order," 0733-8724/00, IEEE, Journal of Lightwave Technology, Vol. 18, No. 4 pages					04/2000
	H	Kogelnik, et al., "Jones matrix for second-order polarization mode dispersion," Bell Labs, 0146-9592/00/010019-03, Optical Society of America, Optics Letters, Vol. 25, No. 1					01/01/2000
	I	Noé et al., "Polarisation mode dispersion compensation at 20 Gbit/s with fibre-based distributed equaliser," Electronics Letters, Vol. 34, No. 25, 2 pages					12/10/1998
	J	Watley et al., "Compensation of polarisation-mode dispersion exceeding one bit period using single high-birefringence fibre," Electronics Letters, Vol. 35, No. 13, 2 pages					06/24/1999
	K	Sunnerud, et al., "Analytical Theory for PMD-Compensation," 1041-1135/00, IEEE Photonics Technology Letters, Vol. 12, No. 1, 3 pages					01/2000
	L	LeFevre, "Single-Mode Fibre Fractional Wave Devices and Polarisation Controllers," Electronics Letters, Vol. 16, No. 20, 3 pages					09/25/1980
	M	Winters, et al., "Experimental Equalization Polarization dispersion," 1041-1135/90/0800-0591, IEEE Photonics Technology Letters, Vol. 2, No. 8, 3 pages					08/1990
	N	Chbat et al., "Long Term Field Demonstration of Optical PMD Compensation on an Installed OC-192 Link," Alcatel USA, Optical Networks, PD12-1, 3 pages					Undated
	O	Girard, et al., "PDM: The New Telecommunication Frontier Emerges," Lasers & Optronics, Fiberoptics, 6 pages					02/1997
	P	B. Lavigne, et al., "Low input power All-Optical 3R Regenerator based on SOA devices for 42.66Gbit/s ULH WDM RZ transmissions with 23dB span loss and all-EDFA amplification," PD15-1, 3 pages, Optical Society of America.					Copyright 2002
	Q	J.P. Sokoloff, et al., "A Terahertz Optical Asymmetric Demultiplexer (TOAD)," 1041-1135/93S03.00, IEEE Photonics Technology Letters, Vol. 5, No. 7					July 1993
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

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	A						
FOREIGN PATENT DOCUMENTS							
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	B						YES NO
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C	Tran et al., "Surface Micromachined Fabry-Perot Tunable Filter," IEEE Photonics Technology Letters, Vol. 8, No. 3, pp. 393-395					03/1996
	D	Burns et al., "Optical beam steering using surface micromachined gratings and optical phased arrays," SPIE, Vol. 3131, pp. 99-110					Undated
	E	Burns et al., "Designs to improve polysilicon micromirror surface topology," SPIE, Vol. 3008, pp. 100-110					1997
	F	"1-D vs. 2-D vs. 3-D MEMS Optical Switch Architectures," Network Photonics, pp. 1-3					Undated
	G	"CrossWave™ A Reliable MEMS-Based Optical Switch, Network Photonics, pp. 1-4					Undated
	H	Ford et al., "Micromechanical Fiber-Optic Attenuator with 3 μ s Response," Journal of Lightwave Technology, Vol. 16, No. 9, pp. 1663-1670					09/1998
	I	Walker et al., "Fabrication of a Mechanical Antireflection Switch for Fiber-to-the-Home Systems," Journal of Microelectromechanical Systems, Vol. 5, No. 1, pp. 45-51					03/1996
	J	Goossen et al., "Micromechanical Gain Slope Compensator for Spectrally linear Optical Power Equalization," IEEE Photonics Technology Letters, Vol. 12, No. 7, pp. 831-833					07/2000
	K	Goossen et al., "Integrated mechanical anti-reflection switch (MARS) device for fiber-to-the-home applications," http://mirlynweb.lib.umich.edu/WebZ/FETCH?sessionid=01-35557-462149016&recno=13&re					05/08/2002
	L	"ELASTIC-45 tunable interferometer component," Solus, Preliminary Datasheet and applications					Undated
	M	Mecozzi, et al., "A simple compensator for high order polarization mode dispersion effects," AT&T Labs Research, 192/WL2-1, 3 pages					Undated
	N	Chbat, "Mitigation of polarization mode dispersion," Alcatel USA, Optical Networks Division, 0-7803-5634-9/99 IEEE, 2 pages					© 1999
	O	Pan, et al., "Chirp-Free Tunable PMD Compensation using Hi-Bi Nonlinearly-Chirped FBGs in a Dual-Pass Configuration, Dept. of Electrical Engineering-Systems, University of Southern California, ThH2-1/113, 3 pages					Undated
	P	Roy et al., "A simple dynamic polarization mode dispersion compensator," Alcatel Corporate Research Center, TuS4-1/275, 3 pages					Undated
	Q	Takahashi, et al., "Automatic compensation technique for timewise fluctuating polarisation mode dispersion in in-line amplifier systems," Electronics Letters, Vol. 30, No. 4, 2 pages					02/17/1994
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

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